

WELCOME OPEN HOUSE GUESTS

Volume 2, Number 2

OVER 100 MATH TEACHERS ATTEND NITA PURDUE MEET

The Math department of Calumet Center was host to the mathematics section of the Northwestern Indiana Teachers Association on October 22. The speakers included Dr. Alice Rose Carr, Dr. William B. Higgins of Ball State, Professor Walter Carnahan of Purdue, and Dr. John Moldstad of Indiana University.

About 100 area mathematics teachers attended this meeting. Among them were Dr. and Mrs. M. W. Keller, from Purdue campus of Lafayette; Dr. M. W. Keller has charge of mathematics in all of Purdue's Extensions.

Many important problems relating to mathematics were discussed. The meeting was of special interest to Professors Ralph Pritchard, Wilfred Stock, and Nicholas Relich, Mrs. Eileen Zacher, and Dr. Chester Feldman of the Calumet Center faculty because most of their students were from classrooms of the visiting math teachers.

Alumni Draw Up Constitution

Three members of the Technical Institute Club met at Mr. Wallace Weiert's home on Sunday, October 24, to draft a constitution for the newly formed Technical Institute Alumni Club. Those who were in attendance besides Wallace Weiert, were Eugene Barker, Carl Long and Prof. H. A. Williamson.

At a recent meeting of the officers of the Technical Institute Alumni Club, it was decided that a social meeting for members be held November 26, 8:00 p.m. at Purdue Calumet Center.

The evening's activities will consist of the showing of a film of the 1954 Purdue-Notre Dame football game, a very brief business meeting and refreshments.

Alumni members will be given copies of an alumni directory and encouraged to contact former students from time to time.

Student-Faculty Mixer Is Open to All

The faculty will be feted at a student-faculty mixer Saturday night, November 13, in the student lounge.

The formal name of the affair is "Harvest Home Festival," and the festivities will include dancing to the music of a smooth, eight-piece combo, eating a delicious buffet supper, and enjoying the artistic decorations that are being planned.

Fun will begin at 8:30 and end at 11:30 with the drawing for the door prize. The price of the tickets, which includes refreshments, is 50 cents a person, and every student is urged to attend the gala affair whether he is full-time, part time, technical institute, or a special student.

Since the event is not a closed affair, the students may bring their friends. Faculty are urged to attend as guests of the Student Senate. This invitation includes both full-time and part-time faculty.

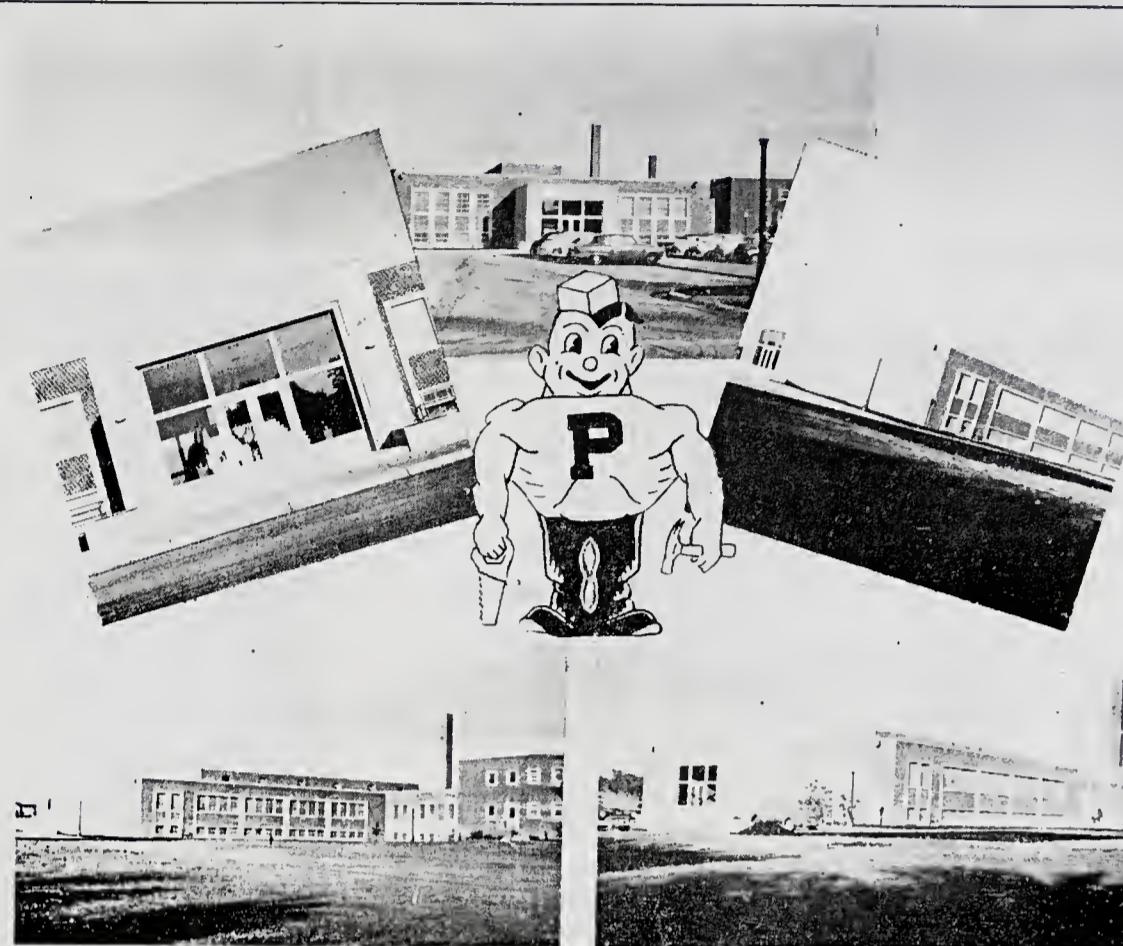
The co-chairmen of the dance, Ala Holloway and Bob Lee, have appointed committees for its operation. These include: publicity—Robert Rueoba and Jackie Jagiel; refreshments—Phyllis Hedwall and Bob Polonis; tickets—Bob Carr and Ray Williams; decorations—Madeline Magyar and Steve Zelenecik; clean-up—Edna Rae Powell, Bob Kurtz, and George Luesik.

The Calumet BOILERMAKER

PURDUE CALUMET CENTER, HAMMOND, INDIANA

SOUVENIR FROM PURDUE CALUMET CENTER

Friday, November 5, 1954



PRESENTING THE INDUSTRIAL Research Institute from various vantage points with Boilermaker Pete as the emcee.

Purdue Center Sets Record With Over 3000 Students

There has been a decided increase in enrollment over last year at the Purdue University Calumet Center; with a present enrollment over 3,000, Director Millard Gute pointed out. The enrollment has reached the highest point in the history of the school.

Students seeking a university degree at Purdue Calumet Center now number 556, an increase of 48 per cent higher than a year ago, and the adult education courses are attended by 1,465 persons. The Technical Institute students total over 1,100. The total enrollment now is 3,290.

Mr. Gute attributes this increase to two factors:

1. The Calumet Campus is becoming better known and the new buildings have attracted a wider interest.

2. More students can afford to attend college locally, where it isn't necessary to pay room and board costs at a remote campus.

The Purdue Center enrollment and curriculum is the largest and most varied in the Calumet Region.

The Tours Committee, headed by

Open House Crowd Will Attract Over 4000 Visitors From Schools, Industry

Purdue's Calumet Center will hold its second Open House on November 6-7 from 2:00 p.m. to 9 p.m. and 2:00 p.m. to 9:00 p.m. respectively.

The first such program was held in the fall of 1951 when Purdue's administration building was viewed by the public.

Approximately 3,500 persons took advantage of guided tours in 1951 and the number expected for the open house to be held for the new research center building may exceed 4,000.

In preparation for this undertaking, faculty representatives of administrative offices at Lafayette met with representatives from Inland Steel and laid the groundwork for the exhibits, demonstrations, and tours.

The local faculty, under a Committee of Committees headed by Mr. H. A. Williamson, was organized into a number of sub-committees which will work closely with similar groups from the Inland Research staff. The Parking Committee, whose chairman is Mr. A. Joly, will control parking and automobile flow about the premises.

Mr. F. Schlosser, Exhibits and Demonstrations chairman, has kept staff groups "prodled" to make sure there are exhibits for the Open House, and to assure adequate representation from such groups as Mathematics, English, History, Speech, etc.

The Tours Committee, headed by

Pointed for Purdue

Nov. 1—Pre-Open House Dinner for Community Leaders.

Nov. 6—Open House, 2-9 p.m.

Nov. 7—Open House, 2-6 p.m.

Nov. 7-9—Adult Education Association Meeting, Chicago.

Nov. 13—Student-Faculty Mixer, 8:30-11:30 p.m.

Nov. 15-19—Mid-Semester Exams.

Nov. 17—End of First 8 Weeks of School

Nov. 20—Faculty Party.

Nov. 22—Phi Delta Kappa Meeting, Teibel's.

Nov. 22—Meeting of Deans and Directors of Evening School—Inland Steel.

Nov. 24—Last day for withdrawal with a grade "W" for students registered for the first time with Purdue.

Nov. 25-26—Thanksgiving Vacation.

Nov. 27—Record Dance.

Fete Executives, Educators at Open House Dinner

A pre-open house dinner was held for about 80 guests and local faculty members Monday, November 1, at 6:30 p.m., in the student lounge of the Purdue Calumet Center.

Dr. M. R. Graney, head of the Department of Industrial Management, introduced the first speaker, Mr. William Hanley, president of the Board of Trustees of Purdue University. The next speaker introduced was Dr. Robert B. Stewart, Vice-President and Treasurer of Purdue University. Dr. Stewart mentioned future plans for additional structures to provide for physical education training and of an extension to the lounge here at the Calumet Center. He foresaw that someday the extension will become a research department for

every industry in the Calumet Region.

Other speakers and individuals introduced were Mr. H. W. Johnson, Vice-President of manufacturing at Inland Steel; Mr. Neale Sterns, Vice-president of management at Inland Steel; Mr. J. Ralph Thompson, Vice-president of the Board of Trustees of Purdue; Mr. E. D. Anderson, chairman of the Board of Trustees of Purdue; Mrs. Claude Crooks, chairman of the Board of Trustees of Purdue; Dr. D. A. Scott, Head of the academic department of the Technical Extension Division of Purdue.

Von Roy Daugherty, Head of the Technical Institute Division; Mrs. Oscar Ahlgren, immediate past president of the Federation of Women's Clubs, and Mr. Millard E.

Gute, Director of Purdue Center.

The Superintendents from the various areas were Mr. L. L. Caldwell—Hammond; Mr. A. C. Senour—East Chicago; Mr. Frank Albright, who represented Mr. Lutz from Gary; and Mr. Robert Brannock—Lake County. Mayors present were Mr. Vernon Anderson—Hammond; Mr. Walter Jeorse—East Chicago, and Mr. Andrew Kovacik—Whiting. The Secretaries of the Chambers of Commerce which attended were Mr. William Lowery—Hammond; Mr. Urie Moore—Whiting, and Mr. Louis O. Long, Vice-president of the Gary Chamber of Commerce.

Dr. F. L. Hovde, president of Purdue University, was the concluding speaker of the evening. In

(Continued on Page Eight)

Adult Education Classes Study Safety, Security

Adult education classes at Purdue University Calumet Center are started anytime the community asks for them. If the need arises for a class in a particular subject, the faculty will organize the group.

This year there will be conferences on management, safety, instrumentation, and quality control. Classes in flower arrangement are now meeting under the direction of Mrs. Fred Mobley. Such a class has been offered the past two years.

The next conference to be conducted by the Purdue University Calumet Center will be Wednesday, November 17, at the Whiting Community Center. This conference is a cooperative effort of the Gary, Hammond, and Harvey social security offices. The purpose of the session is to study the 1954 amendments to Title II of the Social Security Acts as they pertain to:

Area Supervisory Personnel, Personnel Officers, Accountants, Bookkeepers, Auditors, Company Officials, Union Officers, and others whose positions require contact with the Social Security Administration. The speaker for the afternoon is Mr. Victor Christgau, Director of Bureau of Old Age and Survivors Insurance. His topic will be "The Progress of Social Security."

The Third Annual Management Conference will be held this year at the Whiting Community Center on December 4, as many as 500 persons have attended these meetings in the past two years. In the previous meetings there have been

(Continued on Page Eight)

Navy Program Presented Here

Naval Aviation Cadet Procurement Team from the Naval Air Station at Glenview, Illinois set up an information booth in the Student Lounge last Tuesday.

The purpose of this team is to explain the Naval Aviation training program, the opportunities such training can offer, the regulations of the program, and the opportunities in civilian life after military service.

The senior member of the team is Lt. JG Francis Ware. Lt. Ware, from Colorado Springs, Colorado, has served with the Navy for 14 years. The second member of the team was Tommy Pearson, from the Calumet area in Gary. He had been in service nearly two years.

Third and youngest member of the team was Aviation Cadet Robert Immel of Carthage, Illinois, who has just been graduated from the Naval Aviation Training School at Pensacola, Florida.

Lieut. Ware said that he hoped the people he talked to would understand that he and his team were not here to "talk the fellows into quitting school." The Navy can offer a candidate a better position if he has had college training."

The training offered Naval Air cadets is the equivalent of a \$75,000 education. Cadets finishing this training course are listed among the best pilots in the world. They are all-around aviation experts. Commercial air lines offer them high paying positions.

Lieut. Ware said he wished to thank the school for its fine cooperation in presenting the Procurement Team, and the student body for their genuine interest.

The Calumet BOILERMAKER

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527

PURDUE'S PRESIDENT HOVDE



Message Sent to Lake County People

To All Lake County Citizens and Friends of Purdue University:

Purdue University, in company with the citizenry of Lake County, rejoices in the completion of the second structure to be built on the Purdue Calumet campus. This new facility is another step in the development of the higher educational opportunities in your great industrially productive area.

A part of this new educational facility which has been laid out as a research laboratory has been leased to the Inland Steel Company to house its basic research program. This is not only a valuable form of cooperation with industry, but also a distinct asset to the Purdue Calumet Center with the provision of badly needed facilities to take care of students and the addition of a "research and creative atmosphere" which will impinge in many ways on the future and development of students, staff, and educational offerings at the Center.

It is a source of real satisfaction not only to the officers and staff of the University, but also to the Board of Trustees to initiate this form of industrial cooperation in the field of education and research with one of your great companies. We of the University hope that this form of cooperative endeavor can be extended to every other industry in the Calumet area.

Everyone knows that research and the creation of new "know-how" are the primary requirements for advancement of our economic and social enterprise—such advancement means expansion, economic growth, more jobs, steady employment, and a better life for all.

The establishment of this new Industrial Research Institute as part of the Purdue Calumet Center brings the strength and stimulation of industrial research to the Center. To meet the tremendous needs for the future, other facilities and programs must and will follow as rapidly as our resources and support from Lake County will provide. We of the University and the Purdue Calumet Center are proud to have

a vital working cooperative role to play in the future of your community.

Frederick L. Hovde,
President

Calumet Boilermaker Enters Second Year, Publishes Souvenir Issue

The first issue of the Calumet Boilermaker, now an established monthly publication on the Purdue Calumet campus, was published initially May 14, 1954. The staff then was composed of G. David Kelley, editor-in-chief; Philip R. Smith, managing editor; Richard Galombos, business manager; Sigrid Stark, John Tuckey, Harold Williamson, faculty advisors; and A. T. Bolt, publication supervisor.

The fall semester finds almost an entirely new staff, consisting of Phyllis Hedwall, editor-in-chief; Ed Benus, business manager; Sigrid Stark, John Tuckey, Harold Williamson, faculty advisors; and A. T. Bolt, publication supervisor.

The Calumet Boilermaker will be published around the first of each month. There are enough copies printed so that each student can have one.

This paper is sent to all the local high school and public libraries, to the Campus and other extensions, and to the various local industries.

The Welcome Mat Is Out!

We of the Calumet Boilermaker are happy to have this opportunity to welcome the people of the Calumet Region to the Purdue Calumet Center Open House program.

The constantly expanding facilities exhibited to the public today are representative of the mutual benefits to be gained through the cooperation of education, industry, and the community. If these facilities show what cooperation has accomplished in the past, they are also a preview of what further opportunities can be expected as a result of such cooperation in the future.

The growth of the Calumet Center within the past eight and a half years is only a beginning. With continued joint action, unlimited additional service to the community can be expected.

Book Reviews Come To Life in Pictures

Of Human Bondage

"Of Human Bondage," one of books studied in English 238, was made more interesting by Miss Sigrid Stark's display of paintings by several of the artists that Philip Carey and other characters in the book discussed. The subject and style of the paintings by El Greco of Toledo, Spain, and the French Impressionists of the nineteenth century became more meaningful to the students as the artists and their paintings were presented and commented on.

In her trip to Europe in 1952, Miss Stark purposely visited most of the places mentioned in Somerset Maugham's *Of Human Bondage*; they included several parts of London, Canterbury, Paris, and Heidelberg, as well as Toledo, Spain. From a large collection of post cards and of other copies of places and paintings bought in Europe and elsewhere, her classes in *Introduction to Fiction* have received a graphic presentation of the places that Philip knew, as well as of the artists and their paintings in which he was interested.

Coach Hayes Scouts for Player Prospects

Coach Bob Hayes will start his rebuilding problem early this year, and once more he has good reasons.

First of all, Coach Hayes has lost 10 of the 12 players of last year's team. Second, among the 10 former veterans are 6 ft. 6 in. Dick Norlin and 6 ft. 3 in. Ron Sadler. Both Dick and Ron averaged better than 15 points per game over a 20-game schedule last season.

Led by the two big boys, Coach Hayes' 1953-54 team won 13 games while losing only 7 games, a record Coach Hayes hopes to repeat this year. The 1953-54 team also won the Purdue Extension Tourney which was played in Fort Wayne.

Because only students enrolled in PEM 112 are eligible for the team, Coach will have his eyes open every Thursday afternoon.

"So come on boys, let's work hard to make Purdue proud of us," Coach Hayes asked.

Vera's Wedding Stops the Presses

Best Wishes are extended to Mr. and Mrs. Kenneth Schramm, who were united in holy matrimony on October 23, at St. Mary's Church in East Chicago. Officiating at the 10 o'clock nuptials, was the Rev. Charles Doyle. A wedding breakfast immediately following the ceremony was held at the American Legion Post No. 16 on Calumet Avenue in Hammond, which was also the scene of the reception at 7 o'clock that evening.

As their honeymoon destination the newlyweds chose the Smoky Mountains. After the honeymoon was over, the new Mrs. Schramm who is the former Vera Minelli, resumed her duties in the administrative office at the Purdue Calumet Extension.



CLASS IN "OF HUMAN BONDAGE." Standing—Miss Stark, Edward Setmeyer. Seated—Madeline Magyar, Jerry McMurray, Bob Hardt, Bob Bevis.

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PROVIDES HIGHER EDUCATION OPPORTUNITIES FOR EMPLOYEES AND THEIR SONS AT PURDUE UNIVERSITY

In the spring of 1952 the Youngstown Sheet and Tube Company completed arrangements with Purdue University, Calumet Center, in Hammond to inaugurate higher education opportunities for employees and their sons.

The program includes technical education for electrical and mechanical maintenance personnel, twelve full-time scholarships for sons of employees and twelve part-time scholarships for employees.

Forty-four maintenance employees began their studies in the spring semester of 1952. Thirty-seven completed the course and were awarded diplomas in January, 1954.

This course runs for four semesters or two school years. Students attend two classes a week on their own time. Tuition, books, and supplies are furnished by the Company. Subjects include electrical and mechanical principles, mathematics, blueprint reading, and field sketching, industrial organization, human relations, and industrial psychology.

Management's interest in making this course available is to meet the needs of ever-growing complex technical changes in its modernized and expanded facilities, also to give its employees an opportunity to increase their knowledge in understanding these changes and at the same time place themselves in a stronger position for advancement.

The following 83 electrical and maintenance men are attending Purdue Calumet Center under this plan at the present time.

Supervisory—Miguel DeLaRosa, Michael Breskovich, Robert Emmett, Leonard Franz, Ernest Fredericks, Henry Gettif, Orin Gilliland, Paul Hanson, Wilbur Hinkel, Ernest Jennings, William Klaproth, Frank Langer, Frank Lewis, Alexander Michelon, Harry Miller, James Mulligan, James O'Donnell, Michael Pannitto, Milton Raybould, John Salter, Paul Schreifer, Peter Szarek, Vern Treen, Charles Butin, Charles Davis, Grant Davis, Andrew Detvay, Michael Duhon, Eric Erickson, Clyde Hendy, Anthony Jordan, Stanley Konz, Nicholas Kosier, Jerome Kowalski, Elmo Parlor, Joseph Smith, Thaddeus Sporney, Henry Woronka.

Wage and Hourly Men—Robert Barker, Sorfronije Beslin, Vernon Besse, Donald Burriss, William Carter, James Combs, Ross Covelli, Robert Craig, Byron Crews, Robert Crider, Leslie Fahey, Jerry Faith, Gerald Fogarty, Joseph Golob, Arthur Halbrook, Robert Heady, Willie Hearns, Walter Hunt, Joe Jasura, Kermit Jones, Wesley Kennedy, Arthur Kenniger, Luvern Lane, William Luttringer, Frank Maio, Guido Mazzocco, Harold McCready, Joseph Nasadowski, Gerald Nelson, Gerald Nicholson, Eugene Over, Frank Petreust, Ray-

mond Quinn, Bosko Radojucic, Harry Reusze, Letser Roupe, Henry Schendera, Joseph Schreier, Phillip Tomich, John Tozer, Robert Vasques, Henry Whitaker, Dale Wilson, Donald Wynn, Peter Zubeck.

(Full-Time Scholarships)

Twelve Full-Time Scholarships leading to a college degree are provided for sons of employees where the parent has at least five years of continuous service with the Company.

Students are chosen by Purdue University in accordance with usual scholarship procedure subsequent to processing applications through the Superintendent of the Department in which the parent is employed.

Scholarships cover tuition and all other fees established by the University. They are awarded on a semester basis and are renewable each semester if the student maintains an average of "C" plus, and complies with other requirements of the school.

These scholarships were originally set up for two full years (4 semesters at the Calumet Center) but were extended to include two additional years at Purdue's Lafayette Campus. Two students, Richard W. Fitzsimmons and Eugene J. Mellady entered Lafayette Campus last September under the new plan.

Attending Purdue Calumet Center at present on full-time scholarships are:

Andrew Kalan, Theodore Karis, Robert Kurtz, George Landsley, Gerald Landsley, Curtis Nelson, Richard Sault, and Richard Schneck.

(Part-Time Scholarships)

Employees with a year or more service have the opportunity to qualify for the twelve part-time scholarships provided by the Company. The demand for this type of scholarship prompted the Company to increase them from eight to twelve in 1953.

These scholarships are awarded on a two-semester basis up to a maximum of ten semesters.

In this group of students are employees of all ages who are interested in furthering their education to gain additional technical knowledge which will aid them in understanding, operating, and supervising new modern equipment and methods.

Attending Purdue Calumet Center at present on part-time scholarships are:

Amos Blythe, Michael Brav, Leo Chandler, Ernest Glover, Alexander Gorney, Keith Hetrick, Edward Kuehl, Benedetto Leonard, Robert MacCartney, Walter Mueller, and Bernard White.

The results from these educational opportunities provided by the Company have been most gratifying. The entire program is becoming more popular with employees as they experience the advantages gained in applying their increased knowledge in their daily work.

The Company proclaims it a pro-

ject of mutual benefit, a positive endeavor in building a better trained personnel to man its modern expanded production units—but more important, it places the individual in a better position to improve his situation as the opportunity becomes available.

Physics Department

In the very name Physics, because of the sibilants, there is very little pulchritude, and many people think of it with a bad taste in their mouths simply because they omit the final letter. Other people think a physics instructor is a physical culture expert or an athletic director. In physics, however, we are more interested why something happens rather than in how it happens. We are interested in why it is possible for the housewife, after she has burned the dinner in the electric stove, to freeze it in the electric refrigerator. We would be interested in scrambling an egg without breaking the shell; we are not interested in how the egg tastes.

Some things we run down in physics actually go up, whereas other things we push down, roll back again. Items that we feel will tumble down have social security on the solid foundation of a pin point. Our Physics Laboratory here has one skeleton which is not ipso facto proof; it had a double dose of physics. It simply does mean that the Biology and Physics Departments have symbiosis.

Physics group uses its skeleton for its moment of inertia. Sometimes we apply unbalanced force at its center of gravity which results in uniform acceleration. Often too, we look for the skeleton's radius of gyration and change its fulcrum. Once in a while we isolate a joint in order to find the tension or compression and thus safeguard its elastic limits. Two classes calculated different values for its coefficient of expansion simply because someone substituted a new value for the skull.

When you pass by our windows, won't you come in? To understand physics, you need no slide rule—just common sense. If you have a lot of common sense (it is very uncommon), you may be able to ex-

plain the circle of least confusion. Maybe you are more interested in people rather than why some things happen, even then, the physics group can be of help. It will introduce you to micro-farad and to grandson micro-micro-farad. Newton and Weber, not to speak of the Maxwell and Gauss, are also eager to shake your hand.

Psychology Clinic Exhibit

There will be literature on display to help a person chose a vocation at the Psychology Clinic exhibit.

Tests which have verified whether a person is well qualified for the job he has chosen are also displayed.

Industrial men will be interested in the chart on the bulletin board. These charts show that industry can profit when people have taken an aptitude test.

The purpose of the program is to offer, free of charge, to any student carrying 12 hours or more the chance to take an aptitude test and other types of tests to help the individual find his place in life.

Building Construction Technology Department

The exhibit of the Building Construction Technology Department consists of a set of architectural drawings for a small home, a perspective drawing, and a graphical analysis of a truss. These drawings are among the many prepared by Building Construction students during the two year course.

The objectives of the program is to prepare men trained to act as assistants or aides to architects and engineers within the scope of their two year training.

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Camera Eye View of Purdue Calumet Center



YOUNGSTOWN ELECTRICAL Maintenance class under the supervision of Mr. Joseph Rapal measuring the speed of a series motor illustrating the fact that a series motor will reach excessive speed when it is placed across the line without a load.



YOUNGSTOWN ELECTRICAL Maintenance class measuring resistance of a shunt field on a D-C motor to determine the amount of current that will flow through the field at the instant of starting.



LUNCH TIME—CLASS IN PRACTICAL NURSING



SENATE OFFICERS. Standing: Bob Lee, president; Bob Kurtz, vice-president. Sitting: Jackie Jagiel, secretary; Mary Garvey, treasurer.

Student Senate Two Bodies Govern College Group

The governing body at Purdue University Calumet Center, the Student Senate, consists of two houses: the Student Assembly and the Executive Board.

The Assembly is composed of nine members. Of these, six are college credit students, three being freshmen and three sophomores. The other three members are students from the Technical Institute. The Executive Board is made up of three representatives-at-large, the president, and the vice-president. The other two executive officers are the secretary and the treasurer, but they are not members of the executive board. The Senate is aided in its work by a member of the faculty, who serves as an advisor.

All the members of the Assembly, the secretary, and the treasurer are elected by the popular vote of the students. After being elected, the representatives elect the president and the vice-president. All aspirants for any office must first present a petition carrying a specified number of names to the election chairman before any campaigning may begin.

The Student Senate holds its annual election in the latter part of October. This year the voting days were October 21 and 22. A table was set up for the poll workers in the lounge and the ballot box was placed on this table. A complete list of the students eligible to vote (every person enrolled in at least one class at the extension is eligible) was kept at the polling place, and every student who exercised his right to vote was checked off on this list. The ballots were counted on the Friday night that the elections ended, and the results were posted on the bulletin board in the lounge.

This year's results were as follows: Secretary, Jackie Jagiel; Treasurer, Mary Garvey; Representatives-at-large, Joe Belovich, John Millard, Barbara Tolin, and Ray Williams; Sophomore Representatives, Bob Carr, Lowell McCarter, and Dick Lovin; Freshmen Representatives, Judy Shields, Glen Mathis and Steve Zelencik.

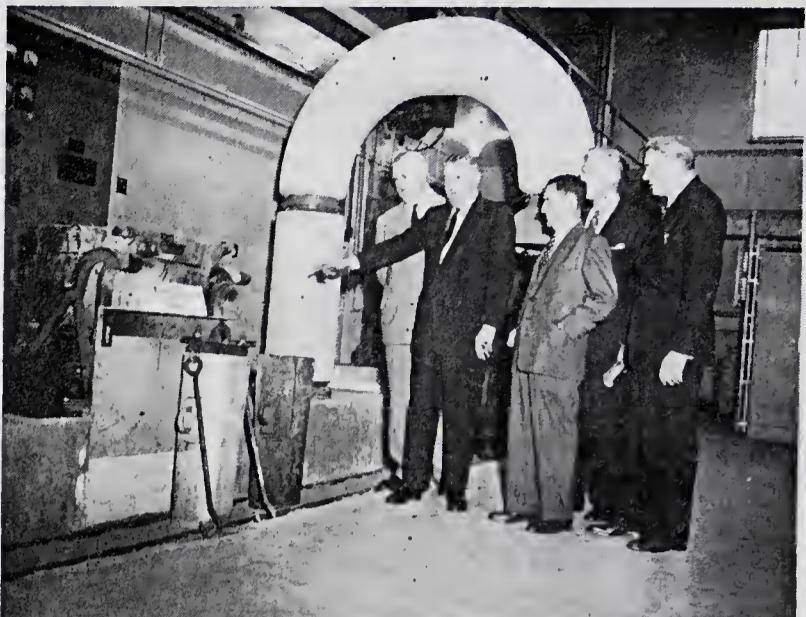
The Student Senate holds its annual election in October. The Senate usually meets twice a month during the school year. A majority of all the members of the Senate must be present before any matter under consideration may be voted upon.

The discrepancy in the number of representatives-at-large with the prescribed number occurred because of a tie when the votes were counted. It was up to the discretion of the Senate to decide on the policy to be used in the situation since a recount yielded the same results. The decision of the Senate was to accept both of the tying candidates as members.

Meetings are usually held bi-weekly unless a need for increased meetings arises. In order that any matter under consideration may be voted on, there must be a majority of all Senate members present.

The duty of the Senate is to coordinate and supervise student activities at the extension. It sponsors dances, parties, sports, hayrides and the annual Christmas assembly. It provides a place for playing cards, chess and records. The Senate initially sponsored the chorus and handled the drive for the Red Cross.

All students are eligible to be elected to the Student Senate, membership in which is an honor as well as a responsibility, but the Senate needs the support of every student, whether or not he be an elected member.



GROUP IS VIEWING a miniature steel making furnace in Inland's Research Laboratories. This steel making induction furnace duplicates the operations of the huge open hearth at Inland's Harbor works and helps the Inland researchers to study the making of steel.

Left to right—H. W. Johnson, Vice-President, Inland Steel Co.; F. M. Rich, General Supt., Indiana Harbor Works, Inland Steel Co.; J. L. Block, President, Inland Steel Co.; E. D. Martin, Supt., Research and Development, Inland, and R. B. Stewart, Vice-President and Treasurer, Purdue University.



INLAND STEEL—Drafting class: John Golombas, Paul Lothrop, Paul Flusche. (Pictured)



GARY SHEET AND TIN MILL Electrical class. Seated left to right: Edwin Summer, J. Shepley, Carl Dixon, Bill Cliff, Knute Oness, Eddie Gilliland, Alfred A. Zucco. Standing left to right: Dave Harm, Frank Swelnis, Edward F. Kosak, Nick Kotur, John Kush, R. R. Grose, Homer Killion, James Bisbis, Harry Goethal, Jr., Robert L. Anderson, instructor.



MISS ANN VERMILION holds a watch on Miss Sandra Carlson.

Be Sure to See the Special Features at the Exhibits

The Purdue-Inland Program Shows Tie-in of School, Industry

Study by day—work at night. This student life in reverse has been followed in part by nearly 1,000 Inland employees who have enrolled in the Purdue-Inland Training Program since it was established in 1948.

This unique university-industry cooperative educational program, first of its type in the Calumet Region, is currently schooling 291 members of the sixth Purdue-Inland Training Program.

The two-year program has been tailored to take care of the steelman who works shift work at Inland Steel's Indiana Harbor Works, offering day and evening classes, two days a week, three hours a day.

Inland pays the cost of tuition, books and supplies. The employee gives his time. When an employee graduates, he receives a certificate of completion in one of three courses—electrical, mechanical or steelmaking.

The courses have been designed by Inland and Purdue to equip the Inland employees with basic knowledge in the three concentrations of study and also to acquaint them with the processes of steelmaking as they apply to their field of study.

The Electrical Division of instruction, for example, is designed to give these employees an opportunity to acquire a knowledge of the basic principles of mathematics, physics and electricity as applied to Electrical Department problems at the Harbor Works.

In this course, Inland employees take electrical laboratory, arithmetic and algebra, and physics in their first semester.

D.C. circuits and machines, algebra and trigonometry are taught in the second semester. During their second year, students get such courses as A.C. circuits, motor controls, A.C. machines and a survey of electronics.

The Mechanical Division gives employees in mechanical operations an opportunity to relate study in mathematics, mechanics, strength of materials, and technical drawing to Inland's entire Indiana Harbor Works.

This is done through such courses as Steel Production Processes and Ferrous Materials and Processes. The Steel Production Processes is a unique lecture course which is given largely by Inland personnel.

In the Steelmaking Division, Inland employees in production departments acquire a knowledge of chemistry, physics, and metallurgy to understand steelmaking processes better and to relate this knowledge to production problems.

The first semester of study consists of two semesters of steel production processes, and of the chemistry of steel and mathematics. The second year covers physics, ferrous metallurgy, fuels and combustion, and control of quality in steel production.

The Purdue-Inland Training Program is another example of education-industry cooperation in the Calumet Region . . . a state university and a private industry working together to meet mutual problems and needs for the ultimate benefit of all.

Student Activities Exhibit

The student activities exhibit is divided into the three principal activities of the students on the Calumet Campus. These activities are the newspaper, The Calumet Boilermaker, athletics, and the Student Senate.

The newspaper exhibit will consist of series of charts showing the development of the campus paper from its beginning to the completed issue. In addition, there will be copies of earlier issues of the newspaper and pictures depicting the many events and incidents of student life on the campus.

The athletics exhibit will show the trophies won by the basketball

team of the Calumet Center since it began playing in the tournament between the basketball teams of the various centers. Also, there is the plaque presented each year to the class of the Calumet Campus which wins the annual rope pull. Pictures of the various activities of the physical education program and of the basketball team in action will be shown.

The Student Senate's exhibit will try to cover the multiple activities carried on by the Senate during the academic year. The organization of the Senate will be explained in a chart showing the officers and representatives from the various classes and Technical Institute. Pictures of social activities sponsored by the Senate, such as dances, hayrides, etc., will be exhibited. The Senate also sponsors such activities as a music hour for the students during the noon hour, promotes a choral group and supports other student activities which will benefit the student during his college career.

History and Government Div.
The history and government exhibit is primarily one of visual aids used in the classroom and for current events. These aids consist of maps, charts, newspaper clippings, and current events publications.

The large world map has a special surface which allows arrows or other drawings to be made directly on the map surface and then washed off. This provides an opportunity to use the map in various ways, such as drawing on the map the various exploration routes of the 15th, 16th and 17th centuries and erasing them when that phase of history is completed. Other maps provide large-scale projections of the various continents for more detailed study.

Maps published on the current events publications are especially useful in giving detailed information in certain areas of the world, such as the southwest Pacific and the Amazon region. A map projected to provide a visual conception of world viewed from above the north polar regions is vital to understanding our geography in terms of the air age.

Other visual aids necessary to the study of history and government are charts, newspaper clippings, and current events publications. Charts are a necessary supplement to textbook material in order that certain aspects of history and government may be more easily understood by a visual conception. Such charts as those of governmental organization, United Nations organization, periods of history or chronological development are examples of this type of visual aid. Newspaper clipping and current events publications emphasize not only contemporary events, but, through these contemporary events the trend of history or its continuation as developments begun years before, continue to develop in terms of today's events.

Audio aids such as recordings may be used to recapture the temper and tone of the period being studied. This is done most effectively by playing records of important speeches given at that time. For example, recordings taken during the hectic days of the early New Deal period give an understanding of the period that could not be achieved in any other way.

Zoology Laboratory

The laboratory setup in zoology shows what actually goes on as a student works in the laboratory.



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The work with the rat is a study which enables a beginning student to appreciate the structure of a typical vertebrate, some insight may be gained into the nature of human gross anatomy through this experience.

The study of the one-celled animals gives some understanding of the opposite extreme in animal organization.

The compound microscope is important in any biological study. The study of tissues, histology, is illustrated by a few common tissue sections shown.

The wheat stem rust exhibit is studied in learning about fungi. This rust disease did much damage in Lake and Porter counties during this last summer.

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Foremanship Course

The Professional Foremanship course for Gary Sheet and Tin Mill supervisors presented under the auspices of the Purdue Calumet Center was begun in the spring of 1952.

At present the class registrations amount to 120 men in the Supervisory program and 46 in the pre-Supervisory program. Most of these men are working toward a certificate.

Course offerings consist of Industrial Psychology, Practical Speaking, English, Human Relations, Production Cost Analysis, Metallurgy of Tin, Statistical Quality Control, and Job Evaluation and Wage Incentives.

Motor Inspectors Course Set Up for Gary Sheet-Tin Mill

The Motor Inspectors' Course was initiated at the beginning of the Spring Semester, 1954, at the express request of the electrical maintenance men and their supervisors. It was generally realized that the increasingly complexity of electrical machinery and control apparatus has made it necessary that men who maintain and care for such equipment obtain special training. Furthermore, regular job schedules leave but little "training time" available on the job, and the men find it very difficult to search out the information they need, by their own efforts. Therefore, the present course was formulated through the cooperation of Mr. Pyle of the Gary Sheet and Tin Mill Training Bureau and the Purdue University Calumet Center Staff.

Much of the demonstration equipment for the course has been supplied through the cooperation of Mr. Heydorn and others of the crane maintenance group. Mr. Bales and the Electrical Engineering group have been more than generous in supplying valuable blueprints and diagrams for use and study in the course.

Ninety men were recruited to begin the course of training. This group was divided into six class groups of approximately 15 men each. Electrical Maintenance Foremen were given the responsibility of scheduling men from their departments to attend classes so that work schedules would not be interrupted, and in order to maintain an equitable distribution of men among the six class sessions.

A man can attend any one of the six classes and is not bound to one class, but attends as he is scheduled by his foreman. Each class is three hours in length and is so spaced in point of time that all men can attend class regardless of the shift they are working. The times for classes has been: (a) two at 9 a.m. to 12 noon, (b) two at 5 p.m. to 8 p.m., (c) one at 12 noon to 3 p.m., and (d) one at 7 p.m. to 10 p.m.

The classes have been held in a small conference room within the Mill. The students have been paid for their time spent attending classes. Both of these have been important factors in the high attendance rate. In addition, interest of the men in the subject matter given has been quite great. Participation in class discussions and demonstrations has been eager and spirited.

Two primary objectives have been the central theme of the entire course:

1. Proficiency in the reading of electrical blueprints.
2. Increased knowledge of the applications of fundamental electrical concepts to the industrial situation.

To accomplish this, much time has been given to the detailed study of simple electrical power and control circuits. The prints have not only been "read," but each piece of electrical apparatus on the prints has been studied so the men learn what it is, what it does, how it does it, why it does it. One of the most tangible results has been a new self-assurance within the minds of the men that they can do their jobs better because of their efforts and study together.

Of the 90 men who started the course last February, 83 of them signed up for the second semester's work again in September, and a high percentage of them are eagerly continuing their studies in spite of vacations, floods, building new homes, and other outside activities.

These men of industry, who have the vision and the determination to give up their "free time" that they may improve their job knowledge and increase their understanding of the world about them, are indeed to be complimented.

New Instructors Added To Language Faculty

On the staff of part-time instructors this year at Purdue Calumet Center is Michael Halowaty. Besides teaching German two nights a week, he is a metallurgical engineer at the Inland Steel Research Laboratories here.

Mr. Halowaty has had a very interesting life. He was born in the Ukraine in 1922. In 1939 he entered the University of Breslau in Germany. Five years later, after attending college with no breaks for vacation, he received his Ph.D. in inorganic chemistry.

Mr. Halowaty, his wife, and four children are now living in the Dunes region at Miller.

Making it possible for the Calumet Campus of Purdue to offer Spanish for the first time is Miss Leonor Andrade, who teaches the course on Monday and Thursday evenings.

Miss Andrade, whose home town is Gallup, New Mexico, received her B.A. degree from the University of Wisconsin. Before making her residence in Hammond last fall, she lived in Washington where she worked for the State Department. Previous to that position, Miss Andrade taught at the Radford School for Girls in El Paso, Texas.

That Miss Andrade loves to travel is evidenced by her twelve-week trip to Europe this summer. Her tour of the continent included Spain, Portugal, Spanish Morocco, France, Germany, Switzerland, Austria, Yugoslavia, Holland, Belgium, Italy, and England.

Other trips that she has made have been to Mexico and Eastern Canada. Along with her pronounced interest in traveling, she enjoys photography, so she is able to record the very pleasant experiences of her travels.

Open House Crowd . .

(Continued from Page 1) Dr. W. Cone, will work to coordinate the flow of people through the buildings with a minimum of disturbance and "back-tracking."

The Program Committee chairman, Mr. C. Rhodes, has provided the public with a printed memento of their visit to the Open House with a listing of exhibits which is presented in the "Calumet Boilermaker."

Dr. J. S. Tuckey, the Literature Committee chairman, has prepared and supervised the mailing of prior

Nursing Course Added To Meet Need For Medical Growth

To meet the needs for the rapid advances in the field of medicine, expansion of the public health program, extensive use of hospitals by the public, and increase in life expectancy, a practical nursing program has been inaugurated at Purdue University Calumet Center.

The course at Purdue is taught by Miss Mary Ruth Maginsky, R.N., Director; Miss Esther Ramsay, R.N., Nursing Instructor; Mrs. Mary Sabol, Family Living Instructor.

The one-year course is divided into two parts. Four months are spent at Purdue studying nursing skill such as: personal hygiene, community health, nutrition, home management, food preparation, child care and development, and diversional therapy. The remaining eight months are spent at the four hospitals in this area receiving clinical experience in the care of medical and surgical patients, mothers and newborn babies, children and the aged.

They have, in addition to classrooms and a demonstration-lecture room, a Nursing Arts Laboratory containing ten complete patient units including bed, bedside stand and other sickroom equipment, a Family Living laboratory with four complete kitchen units, plus laundry facilities.

After successful completion of this course, the student is eligible to take the state licensing examination, and becomes a "Licensed Practical Nurse."

Work in hospitals, nursing homes, convalescent homes, doctor's offices, industry and private duty are opportunities open to these nurses.

A new class will be admitted January 10, 1955. Applications may be obtained by calling Miss Maginsky at the Purdue Center-Tilden 4-0520.

prepared announcements of the Open House program. The Publicity Committee is under the direction of Mr. H. A. Williamson, Miss Sigrid Stark, and Dr. J. S. Tuckey. Mr. M. E. Gute was selected to oversee general press relations, in special cooperation with Inland Steel.

The Student Senate and other organizations, as well as individuals, have contributed time and effort toward making this Open House a success.

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preparation for the Open House

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range plan at Calumet Center is that, in time, research programs for other interested industries may be established on a basis comparable to that presently existing with Inland Steel.

One of the purposes of the Open House is to acquaint the people in the Calumet area with the possibilities for co-operative university-industrial programs on the Purdue Calumet Campus.

New reading devices have accelerated reading in Dr. John Tuckey's classes.

This goal is accomplished by means of accelerators which cast a beam of light across a page. As the beam of light moves down the page, the reader must read within it. The machine has a control which may be set at a desired speed and increased or decreased as needed.

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Physical Education Activities Get Place in School Curriculum

As we look back into the history of the Calumet Center, we find some need for a planned and directed program of physical activities through which the student could develop and maintain his physical fitness. It was the realization of this problem which accounted for the acceptance of physical education as an important element in the school curriculum.

From 1946 to 1951 the physical education program consisted of student participation in the industrial basketball league at the Hammond Civic Center. The students themselves were responsible for organizing their teams.

At the end of each season the Calumet Center team would participate in the Purdue Off-Campus Basketball Tournament, a contest which the Calumet Center has won three times—1949, 1951, and 1953.

In 1952 a part-time instructor was acquired to organize and supervise an intramural program. Each department in the Center was asked to participate in the program by sponsoring a basketball team. Each game consisted of two halves, each half being twenty minutes in length. Regular basketball rules were followed with this exception—every player had to play at least ten minutes in every game. The program handled a total of twenty-four students for twelve weeks. Once again a school team was sent to the Purdue Off-Campus Tournament only to lose to Indianapolis.

In 1953 the class was extended to thirty-six students; the Edison school gym was used every Thursday night for thirty-two weeks. While the weather was nice, softball and touch football were played. On November 1, 1953, the class moved inside and played basketball and volleyball. A school basketball team was chosen from the intramural teams, and a schedule of twelve games was played. Our season ended with eight wins and four losses. The Purdue Off-Campus Tournament was played at Ft. Wayne, with Hammond winning.

As our program continues to improve with the addition of soccer in the fall and track in the spring, the school curriculum will be fulfilling its responsibility to physical education.

The school basketball team will be open to anyone in the Calumet Center who qualifies. An eligibility rule has been installed and each player must carry a 3.5 grade average to be eligible. The schedule includes such teams as Joliet, Illinois, Wright Junior College, and Morton Junior College of Chicago, Thornton Junior College of Harvey, Illinois, and Kendall College of Evanston, Illinois. Each team is played on a home-and-home basis.

Adult Education . . .

(Continued from Page One) such speakers as Clarence Manion, former Dean of the School of Law, Notre Dame University; the mayors of Hammond, East Chicago and Whiting; and Paul Pigors, Professor of Industrial Relations, Massachusetts Institute of Technology. Subjects discussed have included communications, health maintenance, human relations, and training.

The program this year includes three principal speakers: J. Warren Shaver, assistant Vice President, Industrial Relations Department, the United States Steel Corporation; Wesley Wicksell, professor at Louisiana State University and Vice President of the National Society for the Study of Communications; and Dr. Nicholas Nyarodi, from the School of Commerce at Bradley University.

Dr. Nyarodi was one of the leaders of the democratic, strongly anti-communist Small Farmers Party in post-war Hungary, and represented his party for almost four years; first, as Under Secretary of the Treasury, then as Minister of Finance in the Hungarian Cabinet.

Since coming to this country, he has been uneasily active in awakening the American people to the threat of Soviet imperialism and communist infiltration. The topic for his address will be "Free

Coach Holcomb was giving the varsity a chalk talk. He described a situation thus: "Fourth down, two yards to go, our ball on our own 37, with six minutes remaining in the game."

"What would you do?" he snapped at the third string quarterback.

A prompt reply came, "I'd straighten up on the bench and get a better view of the play."



COACH HAYES grid prospects go through typical hardening process.



SENATE PICTURES. Left to Right—Standing: Ray Williams, Glen Mathis, John Millard, Bob Carr, Lowell McCarter, Dick Lovin, Joe Belovich. Left to Right—Sitting: Steve Zelenick, Barbara Tolin, Bob Kurtz, Jackie Jagiel, Bob Lee, Mary Garvey, Mrs. Virginia Cone.

Enterprise or Disaster."

These are the groups that will meet in the near future and there are other meetings and conferences being planned for the spring.

Socony Vacuum Oil Company sponsors a class "Problems in Management" under the auspices of Purdue Calumet Center. Approximately 20 men meet once each week in a two-hour session for sixteen weeks.

Dr. Carl Elliott of Purdue Calumet Campus is the instructor in charge.

Fete Executives . . .

(Continued from Page 1) his stimulating speech Dr. Hovde stressed the threefold functions of a state university which are:

1. Training of the individual
2. Creative knowledge—research
3. Providing certain public services to the community.

The program was ended with the announcement, by Mr. Paul T. Meier, assistant director of Purdue Calumet Center, of a faculty guided tour for the guests through the new industrial research building.

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